

Help

Boolean

Advanced

Number 0

Order Copy

PTBLs

Searching ALL...

[Search Summary]

Results of Search in ALL for: TTL/primate: 31 patents. Hits 1 through 31 of 31

Refilpe Season

TTL/"primate"

Pat. No. Title

- 1. 5,943,983 Non-human *primate* research support tilt table
- 2. <u>5,942,221</u> Recombinant *primate* granulocyte macrophage-colony stimulating factor
- 3. 5,895,646 Isolated native primate GM-CSF protein
- 4. 5,851,813 Primate *lentivirus antigenic compositions
- 5. 5,843,780 *Primate* embryonic stem cells
- 6. 5,824,548 Method of increasing survival of cultured *primate* embryos in medium containing exogenous gonadotrophin releasor hormone
- 7. <u>5,753,231 *Primate* intra-acrosomal sperm antigen for use in a contraceptive vaccine</u>
- 8. 5,707,986 Angiographic method using green porphyrins in *primate* eyes
- 9. 5,612,206 Retrovirus infecting *primate* bone marrow cells and harvesting both non-adherent and adherent cells
- 10. <u>5,602,005 *Primate*</u> intra-acrosomal sperm antigen for use in a contraceptive vaccine
- 11. 5,574,019 Method of perfusing a primate
- 12. 5,571,241 Primate containment cage to restrict movement
- 13. <u>5,563,059</u> Use of human inhibin and human activin to increase the number of mature *primate* oocytes
- 14. <u>5,487,890 Mammalian *primate*</u> erythrocyte bound heteropolymerized monoclonal antibodies and methods of use thereof
- 15. <u>5,470,570 Mammalian *primate*</u> erythrocyte bound heteropolymerized monoclonal antibodies and methods of use thereof
- 16. 5,420,264 Non-human *primate* CD4 polypeptides, human CD4 molecules capable of glycosylation, fragments thereof, fusion proteins thereof, genetic sequences thereof, and the use thereof
- 17. 5,385,723 Non-primate vitreal replacement process
- 18. 5,343,828 Primate amusement and environmental enrichment device
- 19. <u>5,275,132 Timed *primate*</u> roto-positioning method for preventing trauma and for simulating weightlessness

- 20. <u>5,242,813 Mouse monoclonal antibodies specific for normal *primate* tissue, malignant human cultural cell lines human tumors</u>
- 21. 5,102,653 Non-primate vitreal replacement model
- 22. <u>5,049,373 Method for selection of *primate* tumor-associated antigens suitable as in vivo targets for antibodies</u>
- 23. 4,978,520 Novel method for selection of *primate* tumor-associated antigens suitable as in vivo targets for antibodies
- 24. <u>4,959,455 *Primate*</u> hematopoietic growth factors IL-3 and pharmaceutical compositions
- 25. 4,953,500 Door system for large primate caging
- 26. 4,890,579 Timed primate roto-positioner
- 27. 4,877,729 Recombinant DNA encoding novel family of *primate* hematopoietic growth factors
- 28. 4,777,245 Non-human *primate* monoclonal antibodies and methods
- 29. 4,727,825 Primate education device
- 30. 4,120,266 Subhuman primate restraint system
- 31. 4,040,905 Sub-human *primate* diploid cell lines as substrates for virus vaccine production

...Redine Sendi

TTL/"primate"

Search Summary

TTL/primate: 31 occurrences in 31 patents.

Search Time: 1.64 seconds.



US PATENT & TRADEMARK OFFICE PATENT BIBLIOGRAPHIC DATABASE

felp Full Text Boolean Advanced Number Order Copy







(5, of 31)

United States Patent

5,843,780

Thomson

Dec. 1, 1998

Primate embryonic stem cells

Abstract

A purified preparation of *primate* embryonic stem cells is disclosed. This preparation is characterized by the following cell surface markers: SSEA-1 (-); SSEA-3 (+); SSEA-4 (+); TRA-1-60 (+); TRA-1-81 (+); and alkaline phosphatase (+). In a particularly advantageous embodiment, the cells of the preparation have normal karyotypes and continue to proliferate in an undifferentiated state after continuous culture for eleven months. The embryonic stem cell lines also retain the ability, throughout the culture, to form trophoblast and to differentiate into all tissues derived from all three embryonic germ layers (endoderm, mesoderm and ectoderm). A method for isolating a *primate* embryonic stem cell line is also disclosed.

Inventors: Thomson; James A. (Madison, WI).

Assignee: Wisconsin Alumni Research Foundation (Madison, WI).

Appl. No.: **591,246**

Filed: **Jan. 18, 1996**

Related U.S. Application Data

Continuation-in-part of Ser No. 376,327, Jan. 20, 1995.

Intl. Cl.:

C12N 5/06

Current U.S. Cl.:

435/363; 435/366; <u>435/</u>373

Field of Search:

435/363, 366, 373

	References (Cited [Referenced By]			
	=				
5,449,620	Sept., 1995	Khillan			
<u>5,453,357</u>	Sept., 1995	Hogan	435 /7.21		
<u>5,591,625</u>	Jan., 1997	Gerson et al.			
Foreign Patent Documents					
WO 94/03585	Feb., 1994	WO			

Other References

Bongso, et al., "Isolation and culture of inner cell mass cells from human blastocysts", Human Reproduction, 9:2110-2117, 1994.

Brown, et al., "Criteria that optimize the potential of murine embryonic stem cells for in vitro and in vivo developmental studies", In Vitro Cell. Dev. Biol. 284:773-778, Dec. 1992.

Damjanov, et al., "Retinoic acid-induced differentiation of the developmentally pluripotent human germ cell tumor-dervied cell line, NCCIT", Laboratory Investigation, 68:220-232, 1993.

Nation/World, "Embryonic monkey cells isolated". -Nov. 4, 1994.

Bongso, A., et al., "The Growth of Inner Cell Mass Cells from Human Blastocysts," Theriogenology, 41:167 (1994).

Thomson, James A., et al., "Pluripotent Cell Lines Derived from Common Marmoset (Callithrix jacchus) Blastocysts," Biology of Reproduction, 55:254-259 (1996).

Primary Examiner: Woodward; Michael P. Assistant Examiner: Brumback; Brenda G. Attorney, Agent or Firm: Quarles & Brady

11 Claims, 21 Drawing Figures

This invention was made with United States government support awarded by NIH NCRR Grant No. RR00167. The United States government has certain rights in this invention.







(5 of 31)



US PATENT & TRADEMARK OFFICE PATENT BIBLIOGRAPHIC DATABASE

Full Text

Boolean Advanced

Humber

Order Copy







(6 of 31)

United States Patent

5,824,548

Hearn

Oct. 20, 1998

Method of increasing survival of cultured primate embryos in medium containing exogenous gonadotrophin releasor hormone

Abstract

Invitro incubation of *primate* embryos in the presence of gonadotrophin releasor hormone (GnRH) results in enhanced chorionic gonadotrophin production associated with increased survival and attachment of the embryos. Treatment of invitro fertilized embryos with GnRH can be used to improve implantation. Agonists of GnRH reduce attachment competence of embryos and are thereby useful as post-fertilization contraceptives.

Inventors: **Hearn**; **John P.** (Madison, WI).

Assignee: Wisconsin Alumni Research Foundation (Madison, WI).

Appl. No.: 654,723

Filed: May 29, 1996

Intl. Cl.:

A61B 17/435, A61D 7/00

435/363; 435/325; 435/366; 514/800; 600/33;

Field of Search:

Current U.S. Cl.:

435/325, 363, 366; **514**/800; **600**/33, 34

	References (Cited [Referenced By]	
	U.S. I	Patent Documents	•
4,753,928	Jun., 1988	Gulyas et al.	514 /15
5,096,822	Mar., 1992	Rosenkrans et al.	435 /388
5,366,888	Nov., 1994	Fry et al.	435 /375

Other References

R. G. Edwards and S. A. Brody, "The Human Embryo In Vivo and In Vitro," Chap. 10 in Principles and Practice of Assisted Human Reproduction, W.B. Saunders Company, N. Y.: 1995, pp. 415-474 -- published sufficiently before filing date such that the month is not an

DeCherney, et al., "In Vitro Fertilization & Related Techniques," Cahp. 56 in Current Obstetric & Gynecologic Diagnosis & Tretment ed. A. H. DeCherney and M.L. Pernoll, Appleton & Lange, Conn.: 1994, pp. 1026-1029 -- published sufficiently before filing date such that the month is not an issue.

Seshagiri, et al., "The Secretion of Gonadotrophin-Releasing Hormone by Peri-Implantation Embryos of the Rhesus Monkey: Comparison with the Secretion of Chorionic Gonadotrophin," Human Reproduction, vol. 9, Jul. 1994, pp. 1300-1307.

Parker, et al., "Altered Cell Strains in Continuous Culture: A General Survey," Special Publications of the New York Academy of Sciences vol. V, 1957, pp. 303-313 -- published sufficiently before filing data such that the month is not an issue.

- P. B. Seshagiri and J. P. Hearn, "In-Vitro Development of In-Vivo Produced Rhesus Monkey Morulae and Blastocysts to Hatched, Attached, and Post-Attached Blastocyst Stages: Morphology and Early Secretion of Chorionic Gonadotrophin," Human Reproduction vol. 8, 1993, pp. 279-287 -- published sufficiently before filing date such that the month is not an issue.
- B. Lunenfeld, "Past, Present and Future of Gonadotropins," in Advances in Assisted Reproductive Technologies ed. Mashiach et al., Plenum Press, N.Y.: 1990, pp. 39-45 -- published sufficiently before filing data such that the month is not an issue.

Goodman and Gilman, "Adenohypophyseal Hormones and Related Substances," Chap. 56 in The Pharmacological Basis of Therapeutics, 8th Ed., 1993, pp. 1346-1353 -- published sufficiently before filing date such that the month is not an issue.

- M. M. Seibel, "A New Era in Reproductive Technology: In Vitro Fertilization, Gamete Intrafallopian Transfer, and Donated Gametes and Embryos," The New England Journal of Medicine vol. 318 No. 13, Mar. 1988, pp. 828-834.
- J. P. Hearn, "The Embryo-Maternal Dialogue During Early Pregnancy in Primates," J. Reprod. Fert. vol. 76, 1986, pp. 809-819 -- published sufficiently before filing date such that the month is of an issue.

Andreyko, et al., "Therapeutic Uses of Gonadotropin-Releasing Hormone Analogs," Obstetrical and Gynecological Survey vol. 42, Jan. 1987, pp. 1-21.

Neveu, et al., "Ovarian Stimulation by a Combination of a Gonadotropin-Releasing Hormone Agonist and Gonadotropins for In Vitro Fertilization," Fertility and Sterility vol. 47 No. 4, Apr. 1987 pp. 639-643.

B. Lunenfeld and V. Insler, "Gonadotropin Releasing Hormone Pituitary Action: Agonists and Antagonists," in Hormones in Gynecological Endocrinology The Parthenon Publishing Group Inc., N. .: 1992, pp. 17-27-published sufficiently before filing date such that the month is not an issue.

Seshagiri et al., The secretion of gonadotrophin-releasing hormone by peri-implantation embryos of the rhesus monkey: comparison with the secretion of chorionic gonadotrophin, Human Reproduction, 9:1300-1307, 1994.

Seshagiri et al., In-vitro development of in-vivo produced rhesus monkey morulae and blastocysts to hatched attached, and post-attached blastocyst stages: morphology and early secretion of chorionic gonadotrophin, Human Reproduction 8:279-287, 1993.

DeCherney et al., In Current Obstetric and Gynecologic Diagnosis and Treatment, 8th Edition, Chapter 56, pp. 1026-1029, 1994.

Primary Examiner: Naff; David M. Assistant Examiner: Kerr; Janet M.

Attorney, Agent or Firm: Michael Best & Friedrich LLP

2 Claims, 2 Drawing Figures

This invention was made with United States government support awarded by National Institute of Health (NIH), Grant No. RR00167. The United States Government has certain rights in this invention.







(6 of 31)



US PATENT & TRADEMARK OFFICE PATENT BIBLIOGRAPHIC DATABASE

Help

Full Text

Boolean Advanced

Humber

Order Copy







(13 of 31)

United States Patent

5,563,059

Alak, et. al.

Oct. 8, 1996

Use of human inhibin and human activin to increase the number of mature primate oocytes

Abstract

A method is provided for increasing the fertilization potential of oocytes comprising culturing oocytes in vitro with an effective amount of inhibin, activin, or a combination of inhibin and activin. Preferably the oocytes being cultured are immature. After the culturing step, the oocytes can be fertilized. The oocytes are suitably cryopreserved and thawed before the culturing step.

Inventors: Alak; Baha M. (Beaverton, OR); Stouffer; Richard L. (Aloha, OR); Wolf; Don P.

(Portland, OR); Woodruff; Teresa K. (San Francisco, CA).

Assignee: Genentech, Inc. (South San Francisco, CA); Medical Research Foundation of Oregon

(Beaverton, OR).

Appl. No.:

21,404

Filed:

Feb. 23, 1993

Intl. Cl.:

C12N 5/00, A01N 1/02, A61B 17/435, A61K

38/00, A61K 38/16, A61K 35/48, A61K 35/52,

A61K 35/54

Current U.S. Cl.:

800/21; 424/93.7; 424/559; 424/561; 435/2; 435/374; 435/384; 514/8; 514/12; 514/21;

600/33; 600/34

Field of Search:

435/240.2, 240.3, 2; **600**/33, 34; **514**/21, 12, 8;

424/559, 561, 93.7

	References	Cited [Referenced By]	
	U.S. I	Patent Documents	
4,845,077	Jul., 1989	Hodgen	514 /2
5,102,868	Apr., 1992	Woodruff et al.	514/8
5,166,190	Nov., 1992	Mather et al.	514 /8
5,206,160	Apr., 1993	Takahashi et al.	435 /189

Foreign Patent Documents

0340934	Nov., 1989	EP
0417743	Mar., 1991	EP
0521674	Jan., 1993	EP
WO90/13627	Nov., 1990	WO
WO91/10445	Jul., 1991	WO

Other References

Byrd, "Gamete Intrafallopian Transfer (Gift)", In Vitro Fertilization and Embryo Transfer: A manual of basic techniques (D. P. Wolf, ed.), Plenum Press, 265-279, (1988).

Gerrity et al., "Embryo Transfer", In Vitro Fertilization and Embryo Transfer: A manual of basic techniques (D. P. Wolf, ed.), Plenum Press, 189-207, (1988).

Malloy et al., "A laparoscopic approach to a program of gamete intrafallopian transfer", Fertil. Steril., 47(2):289 (1987).

Quigly et al., "Follicular size and number in human in vitro fertilization", Fertil. Steril., 38 (6):678 (1982).

Yovich et al., "Pregnancies following pronuclear stage tubal transfer", Fertil. Steril., 48(5):851-857, (1987).

Hutchinson et al., BBRC, 146(3):1405-1412 (1987), "Effects of Bovine Inhibin, Transforming Growth Factor-.beta. and Bovine Activin-A on Granulosa Cell Differentiation".

Ying et al., BBRC, 136(3):969-975 (1986), "Inhibin and Beta Type Transforming Growth Factor have Opposite Modulating Effects on the Follicle Stimulating Hormone (FSH)-Induced Aromatase Activity . . . ".

Adashi & Resnick, Endocrinol., 119(4):1879-1881 (1986), "Antagonistic Interactions of Transforming Growth Factors in the Regulation of Granulosa Cell Differentiation".

Ignotz & Massague, J. Biol. Chem., 261(9):4337-4345 (1986), "Transforming Growth Factor-.beta. Stimulates the Expression of Fibronectin and Collagen and Their Incorporation into the Extracellular Matrix".

deKretser & Robertson, Biol. of Reprod., 40:33-47 (1989), "The Isolation and Physiology of Inhibin and Related Proteins".

Hsueh et al., PNAS USA, 84:5082-5086 (1987), "Heterodimers and Homodimers of Inhibin Subunits have Different Paracrine Action in the Modulation of Luteinizing Hormone-Stimulated Androgen Biosynthesis".

Hillier et al., J. Clin. Endocr. Metab., 72(6):1206-1211 (1991), "Effect of Recombinant Activin on Androgen Synthesis in Cultured Human Thecal Cells".

Hillier et al., Mol. Cell. Endocr., 75:R1-R6 (1991), "Effect of Recombinant Inhibin on Androgen Synthesis in Cultured Human Thecal Cells".

Bramley et al., J. Endocrin., 134:341-352 (1992), "Apparent .alpha.-inhibin subunit immunoactivity in porcine and ovine luteal extracts is due to interference by cytosolic

proteases in the assay".

McLachlan et al., Fert. and Steril., 48(6):1001-1005 (1987), "Circulating immunoactive Inhibin in the Luteal Phase and Early Gestation of Women Undergoing Ovulation Induction".

Lee et al., Science, 243:396-398 (1989), "Secretion of Activin by Interstitial Cells in the Testis".

Mitrani et al., Cell, 63:495-501 (1990), "Activin can induce the formation of axial structures and is expressed in the hypoblast of the chick".

Mather et al., Endocrin., 127:3206-3214 (1990), "Activin stimulates spermatogonial proliferation in germ-sertoli cell cocultures from immature rat testis".

Smith et al., Nature, 345:729-731 (1990), "Identification of a potent xenopus mesoderminducing factor as a homologue of activin A".

Sugino et al., BBRC, 153:281-288 (1988), "Erythroid differentiation factor can modulate follicular granulosa cell functions".

Whittemore et al., Am. J. Epidemiol., 136:1184-1203 (1992), "Characteristics relating to ovarian cancer risk: Collaborative analysis of 12 US case-control studies".

Sathananthan et al. in Ultrastructure of the Ovary, Familiari et al., eds., Kluwer Academic Publ., Norwell, MA 1991, pp. 29-43, "Maturation of the human oocyte".

Lee et al. in The Molecular and Cellular Endocrinology of the Testis, Serono Symposia Publications from Raven Press, Cooke et al., eds., 1988, 50: 21-27, "Interstitial Cell Cultures Secrete and Activity with . . . ".

Lee and Gibson, Aust. J. Biol. Sci., 38:115-120 (1985), "Ovulation Rate and Inhibin Levels in Gonadotrophin-treated mice".

Baird et al., Ann. NY. Acad. Sci., 541:153-161 (1988), "Inhibin Levels in Gonadotropin-Treated Cycles".

Sheth et al., Adv. Contracept., 2:131-139 (1986), "Potential Application of Inhibin in Male and Female Contraception".

Franchimont et al., Rev. Fr. Gynecol. Obstet, 83(10):607-611 (1988), "Inhibin and Related Peptides: Mechanisms of Action and Regulation of Secretion".

Woodruff et al. in Growth Factors and the Ovary, Hirshfield, ed., Plenum Press, NY (1989), 291-295, "Modulation of Rat Inhibin mRNAs in Preovulatory and Atretic Follicles".

Osborn et al., J. Reprod. Fert., Suppl. 36:59-72 (1988), "An assessment of the factors causing embryonic loss after fertilization in vitro".

Sathananthan et al. in Ultrastructure of human gametogenesis and early embryogenesis, van Blerkom et al., eds., Kluwer Academic Publishers, 1989, pp. 181-199, "Effects of culture and cryopreservation on human oocyte . . . ".

Trounson in Clinical in vitro fertilization, 2nd Ed., Wood et al., eds., Springer-Verlag, 1989,

pp. 33-50, "Fertilization and embryo culture".

Trounson in Clinical in vitro fertilization, 2nd Ed., Wood et al., eds., Springer-Verlag, 1989, pp. 127-142, "Embryo cryopreservation".

Trounson et al., J. Reprod. Fert., 64:285-294 (1982), "Effect of delayed insemination on invitro fertilization, culture and transfer of human embryos".

Al-Obaidi et al., J. Reprod. Fert., 81:403-414 (1987), "Reproductive Charracteristics of Lambs Actively Immunized Early in Life with Inhibin-enriched Preparations from Follicular Fluid of Cows".

Cummins et al., J. Reprod. Fert., 77:365-372 (1986), "Increase in Ovulation rate After Immunization of Merino Ewes with a Fraction of Bovine Follicular Fluid Containing Inhibin Activity".

Bremner et al., J. Clin. Invest., 68:1044-1052 (1981), "Follicle-Stimulating Hormone and Human Spermatogenesis".

Henderson et al., J. Endocrin., 102:305-309 (1984), "Increase in Ovulation Rate After Active Immunization of Sheep with Inhibin Partially Purified from Bovine Follicular Fluid".

Forage et al., J. Endocrin., 114:R1-R4 (1987), "Immunization Against an Inhibin Subunit Produced by Recombinant DNA Techniques Results in Increased Ovulation Rate in Sheep".

Sathananthan et al., Gamete Res., 5:191-198 (1982), "Ultrastructural observations on cortical granules in human follicular oocytes cultured in vitro".

Baker et al., Clin. Reprod. and Fert., 2:161-174 (1983), "Present Status of Research on Inhibin: An Appraisal".

Hasegawa et al. in Inhibin-non-steroidal regulation of follicle stimulating hormone secretion, Serono Publ., Raven Press, Burger et al., eds., 42:119-133 (1987), "Changes in serum concentrations of inhibin during the . . . ".

Sathananthan et al., Gamete Res., 16:343-354 (1987), "Morphology and Fertilizability of Frozen human oocytes".

Lefevre et al., Fert. and Steril., 46(2):325-327 (1986), "Absence of Predictive Value of Follicular Inhibin on the Results of Human in vitro Fertilization".

Al-Hasani et al., Human Reprod., 2:695-700 (1987), "Cryopreservation of human oocytes".

Findlay, Fertil. and Steril., 46(5):770-783 (1986), "The Nature of Inhibin and its Use in the Regulation of Fertility and Diagnosis of Infertility".

Woodruff et al., Science, 239:1296-1299 (1988), "Dynamic Changes in Inhibin Messenger RNAs in Rat Ovarian Follicles During the Reproductive Cycle".

Woodruff et al., Endocrin., 124:2193-2199 (1989), "Decreased inhibin gene expression in preovulatory follicles requires primary gonadotropin surges".

Rivier et al., Science, 234:205-208 (1986), "Inhibin-mediated feedback control of follicle-

stimulating hormone secretion in the female rat".

D'Agostino et al., Endocrin., 124:310-317 (1989), "Unilateral ovariectomy increase inhibin messenger ribonucleic acid levels in newly recruited follicles".

DePaolo et al., Proc. Soc. Exp. Biol. & Med., 198:500-512 (1991), "Follistatin and activin: A potential intrinsic regulatory system within diverse tissues".

Mondschein et al., Endocrin., 123(4):1970-1976 (1988), "Effects of Transforming Growth Factor-beta.on the Production of Immunoreactive Insulin-Like Growth Factor I and Progesterone and on . . . ".

Feng et al., J. Biol. Chem., 261(30):14167-14170 (1986), "Transforming Growth Factor .beta. Regulates the Inhibitory Actions of Epidermal Growth Factor During Granulosa Cell Differentiation".

Carson et al., J. Reprod. Fert., 85:735-746 (1989), "Growth Factors in Ovarian Function".

Zhiwen et al., Mol. Cell. Endocrin., 58:161-166 (1988), "Transforming growth factor .beta. enhances basal and FSH-stimulated inhibin production by rat granulosa cells in vitro".

Gonzalez-Manchon and Vale, Endocrin., 125(3):1666-1672 (1989), "Activin-A, Inhibin and Transforming Growth Factor-.beta. Modulate Growth of Two Gonadal Cell Lines".

de Jong, Physiol. Rev., 68(2):555-607 (1988), "Inhibin".

Stouffer et al., J. Clin. Endocrin., In Press, (Jul. 1993), "Human Recombinant Activin-A Alters Pituitary LH and FSH Secretion, Follicular Development, and Steroidogenesis, During the Menstrual Cycle in Rhesus Monkeys".

Sathananthan et al., Human Reprod., 3:968-977 (1988), "The effects of cooling human oocytes".

van Blerkom, Human Reprod., 4:883-898 (1989), "Maturation at high frequency of germinal-vesicle-stage mouse oocytes after cryopreservation: . . . ".

Pickering et al., Fert. Steril., 54:102-108 (1990), "Transient cooling to room temperature can cause irreversible disruption of the meiotic spindle in the human oocyte".

Trounson et al., Developments in Ultrastructure of Reproduction, 1989, Alan R. Liss, Inc., pp. 355-366, "Human oocyte and embryo freezing".

Cha et al., Fert. Steril., 55:109-113 (1991), "Pregnancy aftre in vitro fertilization of human follicular oocytes collected from nonstimulated cycles, their culture in vitro and their transfer in a donor oocyte program".

O et al., Mol. Cell. Endocrin., 62:307-311 (1989), "Inhibin as an oocyte meiotic inhibitor".

Itoh et al., BBRC, 166:1479-1484 (1990), "Activin A stimulates meiotic maturation of the rat oocyte in vitro".

Tsuchiya et al., Fert. and Steril., 52(1):88-94 (1989), "Correlation of Serum Inhibin Concentrations with Results in an Ovarian Hyperstimulation Program".

Buckler et al., J. Endocrinol., 122:279-285 (1989), "Purified FSH Stimulates Production of Inhibin by the Human ovary".

Tsonis et al., J. Clin. Endocrin. and Metab., 66(5):915-921 (1988), "Gonadotropic Stimulation of Inhibin Secretion by the Human Ovary During the Follicular and Early Luteal Phase of the Cycle".

McLachlan et al., The Lancet, May 31, 1986, 1233-1234, "Plasma Inhibin Levels During Gonadotropin-Induced Ovarian Hyperstimulation for IVF: A New Index of Follicular Function?".

Trounson et al., Science, 212:681-682 (1981), "Pregnancies in human by fertilization in vitro and embryo transfer in the controlled ovulatory cycle".

Rivier and Vale, Endocrin., 125(1):152-157 (1989), "Immunoneutralization of Endogenous Inhibin Modifies Hormone Secretion and Ovulation Rate in the Rat".

Robertson et al., "Inhibin as an Oocyte Meiotic Inhibitor", Mol. and Cell. Endocrin., 62:307-311, (1989).

Primary Examiner: Wityshyn; Michael G. Assistant Examiner: Dadio; Susan M. Attorney, Agent or Firm: Hasak; Janet E.

18 Claims, 13 Drawing Figures







(13 of 31)